

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Applicant: HEIFETZ, et al.

Application No.: 10/625,648

Filing Date: July 23, 2003

Date: November 13, 2009

Page 1 OF 4

Examiner:
LUNDGREN

Group Art Unit: 1639

U.S. PATENT DOCUMENTS

Examiner Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)
	D1 4,761,373	08/1988	Anderson
	D2 4,975,374	12/1990	Goodman
	D3 5,162,602	11/1992	Somers
	D4 5,539,092	07/1996	Haselkorn
	D5 5,545,818	08/1996	McBride
	D6 5,554,798	09/1996	Lundquist
	D7 5,605,793	02/1997	Stemmer
	D8 6,084,155	07/2000	Volrath
	D9 6,177,245	01/2001	Ward
	D10 6,282,837	09/2001	Ward
	D11 6,288,306	09/2001	Ward
	D12 6,307,129	10/2001	Ward
	D13 6,308,458	10/2001	Volrath
	D14 20020059659	05/2002	Stemmer
	D15 20020058249	05/2002	Subramanian

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
*	D16 9706250	02/1997	WIPO	Maliga		
*	D17 9720078	06/1997	WIPO	Stemmer		
*	D18 9732977	09/1997	WIPO	Maliga		
*	D19 9805765	02/1998	WIPO	Miyota		

EXAMINER

DATE
CONSIDERED

Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Applicant: HEIFETZ, et al.

Application No.: 10/625,648

Filing Date: July 23, 2003

Date: November 13, 2009

Page 2 OF 4

Examiner:
LUNDGREN

Group Art Unit: 1639

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	D20	Boynton et al., "Transformation in chlamydomonas with high velocity microprojectiles," <i>Science</i> , 1988, 240: 1534-1537.
*	D21	Crameri et al., "DNA shuffling of a family of genes from diverse species accelerates directed evolution," <i>Nature</i> , 1998, 391: 288-291.
	D22	Dailey et al., "Purification and characterization of murine protoporphyrinogen oxidase," <i>Biochem.</i> , 1987, 26: 2697-2701.
	D23	De Marchis et al., "Genetic transformation of the sugar beet plastome," <i>Transgenic Res.</i> , 2009 18 : 17-30.
*	D24	Dufourmantel et al., "Generation and characterization of soybean and marker-free tobacco plastid transformants over-expressing a bacterial 4-hydroxyphosphopyruvate dioxygenase which provides strong herbicide tolerance," <i>Plant Mol. Biol.</i> , 2005, 5: 118-133.
	D25	Dufourmantel et al., "Generation of fertile transplastomic soybean," <i>Plant Mol. Biol.</i> , 2004, 55: 479-489.
	D26	Goldschmidt-Clermont, "Transgenic expression of aminoglycoside adenine transferase in the chloroplast: a selectable marker for site-directed transformation of chlamydomonas," <i>Nucleic Acids Research</i> , 1991, 19: 4083-4089.
	D27	Hou et al., "Chloroplast transformation in oilseed rape," <i>Transgenic Res.</i> , 2003, 12: 111-114.
*	D28	Kanamoto, et al., "Efficient and stable transformation of <i>Lactuca sativa</i> L. cv. Cisco (lettuce) plastids," <i>Transgenic Research</i> , 2006, 15: 205-217.
*	D29	Kanevski, et al., "Plastome engineering of ribulose-1,5-bisphosphate carboxylase/oxygenase in tobacco to form a sunflower large subunit and tobacco small subunit hybrid," <i>Plant Physiology</i> , 1999, 119: 133-141.
	D30	Koop et al., "Integration of foreign sequences into the tobacco plastome via polyethylene glycol-mediated protoplast transformation," <i>Planta</i> , 1996, 199: 193-201.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.L./

SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Applicant: HEIFETZ, et al.

Application No.: 10/625,648

Filing Date: July 23, 2003

Date: November 13, 2009

Page 3 OF 4

Examiner:
LUNDGREN

Group Art Unit: 1639

*	D31	Kumar et al., "Plastid-expressed <i>betaine aldehyde dehydrogenase</i> gene in carrot cultured cells, roots, and leaves confers enhanced salt tolerance," <i>Plant Mol. Biol.</i> , 2004, 136: 2843-2854.
	D32	Kumar et al., "Stable transformation of cotton plastid genome and maternal inheritance of transgens," <i>Plant Mol. Biol.</i> , 2004, 56: 203-216.
	D33	Lee et al., "Plastid transformation in the monocotyledonous cereal crop, rice (<i>oryza sativa</i>) and transmission of transgenes to their progeny," <i>Mol. Cells</i> , 2006, 21: 401-410.
*	D34	Lelivelt et al., "Stable Plastid transformation in lettuce (<i>Lactuca sativa L.</i>)," <i>Plant Mol. Biol.</i> , 2005, 58: 763-774.
	D35	Liu et al., "Stable chloroplast transformation in cabbage (<i>Brassica oleracea L. var. capitata L.</i>) by particle bombardment," <i>Plant Cell Rep.</i> , 2007, 26: 1733-1744.
*	D35	Lutz et al., "A guide to choosing vectors for transformation of the plastid genome of higher plants," <i>Plant Physiology</i> , 2007, 145: 1201-1210.
*	D37	Narita et al., "Molecular cloning and characterization of a cDNA that encodes protoporphyrinogen oxidase of <i>Arabidopsis thaliana</i> ," <i>Gene</i> , 1996, 182: 169-175.
	D38	Nguyen et al., "Generation of homoplasmic plastid transformants of a commercial cultivar of potato (<i>Solanum tuberosum L.</i>)," <i>Plant Sci.</i> , 2005, 168: 1495-1500.
*	D39	Nugent et al., "Nuclear and plastid transformation of <i>Brassica oleracea</i> var. <i>botrytis</i> (cauliflower) using PEG-mediated uptake of DNA into protoplasts," <i>Plant Science</i> , 2006, 170: 135-142.
*	D40	Okumura et al., "Transformation of poplar (<i>Populus alba</i>) plastids and expression of foreign proteins in tree chloroplasts," <i>Transgenic Research</i> , 2006, 15: 637-646.
	D41	O'Neill et al., "Chloroplast transformation in plants: polyethylene glycol (PEG) treatment of protoplasts is an alternative to biolistic delivery systems," <i>Plant J.</i> , 1993, 3: 729-738.
*	D42	Ramseier et al., "Cloning of a DNA region from <i>Bradyrhizobium-japonicum</i> encoding pleiotropic functions in the heme metabolism and respiration," <i>Arch. Microbiol.</i> , 1989, 151: 203-212.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.L./

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Applicant: HEIFETZ, et al.

Application No.: 10/625,648

Filing Date: July 23, 2003

Date: November 13, 2009

Page 4 OF 4

Examiner:
LUNDGREN

Group Art Unit: 1639

	D43	Ruhlman et al., "Expression of cholera toxin B-proinsulin fusion protein in lettuce and tobacco chloroplasts – oral administration protects against development of insulitis in non-obese diabetic mice," <i>Plant Biotech. J.</i> , 2007, 5: 495-510.
*	D44	Ruf et al., "Stable genetic transformation of tomato plastids and expression of a foreign protein in fruit," <i>Nat. Biotechnol.</i> , 2001, 19: 870-875.
*	D45	Sasarman et al., "Mapping of a new hem gene in Escherichia coli K-12," <i>J. Gen. Microbial.</i> , 1979, 113: 297.
*	D46	Sato et al., In <i>ACS Symposium on Porphyric Pesticides</i> , 1994, Duke (ed.), ACS Press: Washington, D.C..
*	D47	Shaver et al., "Changes in chloroplast DNA during development in tobacco, <i>Medicago truncatula</i> , pea, and maize," <i>Planta</i> , 2006, 224: 72-82.
*	D48	Sidorov et al., "Stable chloroplast transformation in potato: use of green fluorescent protein as a plastid marker," <i>Plant Journal</i> , 1999, 19(2): 209-216.
*	D49	Staub et al., "Accumulation of D1 Polypeptide in Tobacco Plastids is Regulated via the Untranslated Region of the psbA mRNA," <i>EMBO J.</i> , 1993, 12: 601-606.
*	D50	Stemmer et al., "Rapid evolution of a protein in vitro by DNA shuffling," <i>Nature</i> , 1994, 370: 389-391.
*	D51	Svab et al., "Stable transformation of plastids in higher plants," <i>Proc. Natl. Acad. Sci., USA</i> , 1990, 87: 8526-8530.
*	D52	Yanase et al., "Porphyrin Synthesis Involvement in Diphenyl Ether-Like Mode of Action of Tripp-Ethyl a Novel Phenylpyrazole Herbicide," <i>Pesticide Biochemistry and Physiology</i> , 1989, 35: 70-80.
*	D53	Zhao et al., "Molecular evolution by staggered extension process (StEP) in vitro recombination," <i>Nature Biotechnology</i> , 1998, 16: 258-261.
*	D54	Zoschke et al., "From cotyledon to mature plant: Arabidopsis plastidial genome copy number, RNA accumulation and transcription are differentially regulated during leaf development," <i>Plant J.</i> , 2007, 50: 710-722.
	D55	Zubko et al., "Stable transformation of petunia plastids," <i>Transgenic Res.</i> , 2004, 13: 523-530.

EXAMINER	/Jeffrey Lundgren/	DATE CONSIDERED	02/01/2010
-----------------	--------------------	----------------------------	------------

Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.